

Author index

Volume 87 (1999)

- Alpern, E., see Ferguson, C., 57
 Aoki, M., see Mieda, M., 223
 Argenton, F., Zecchin, E., Bortolussi, M., Early appearance of pancreatic hormone-expressing cells in the zebrafish embryo, 217
 Ball, S.G., see Hanley, N.A., 175
 Bates, R., see McGrew, L.L., 21
 Belmonte, J.C.I., see Tamura, K., 181
 Bernhardt, R.R., see Roos, M., 103
 Bock, D., see Monaghan, A.P., 45
 Bortolussi, M., see Argenton, F., 217
 Chan, K.K.L., see Wong, R.L.Y., 185
 Chavez, M., Landry, C., Loret, S., Muller, M., Figueroa, J., Peers, B., Rentier-Delrue, F., Rousseau, G.G., Krauskopf, M., Martial, J.A., APH-1, a POU homeobox gene expressed in the salt gland of the crustacean *Artemia franciscana*, 207
 Chow, K.L., see Wong, R.L.Y., 185
 Ciossek, T., see Rogers, J.H., 119
 Clement-Jones, M., see Hanley, N.A., 175
 Colas, J.-F., Launay, J.-M., Maroteaux, L., Maternal and zygotic control of serotonin biosynthesis are both necessary for *Drosophila* germband extension, 67
 Colas, J.-F., Launay, J.-M., Vonesch, J.-L., Hickel, P., Maroteaux, L., Serotonin synchronises convergent extension of ectoderm with morphogenetic gastrulation movements in *Drosophila*, 77
 Cooper, B., see Hardy, S., 199
 Deardorff, M.A., Klein, P.S., *Xenopus* *frizzled-2* is expressed highly in the developing eye, otic vesicle and somites, 229
 Delius, H., see Monaghan, A.P., 45
 Di Carlo, M., see Romancino, D.P., 3
 Diez del Corral, R., see Goriely, A., 203
 Duglison, G.F., Scotting, P.J., Wigmore, P.M., Rat embryonic myoblasts are restricted to forming primary fibres while later myogenic populations are pluripotent, 11
 Elvert, G., Lanz, S., Kappel, A., Flamme, I., mRNA cloning and expression studies of the quail homologue of HIF-2 α , 193
 Evans, M.J., see Pearce, J.J.H., 189
 Fainsod, A., see Marom, K., 33
 Ferguson, C., Alpern, E., Miclau, T., Helms, J.A., Does adult fracture repair recapitulate embryonic skeletal formation? 57
 Figueroa, J., see Chavez, M., 207
 Flamme, I., see Elvert, G., 193
 Gertsenstein, M., see Tanaka, M., 129
 Gong, Z., see Tan, J.T.T., 165
 González-Gaitán, M., Jäckle, H., The range of *spalt*-activating Dpp signalling is reduced in endocytosis-defective *Drosophila* wing discs, 143
 Goriely, A., Diez del Corral, R., Storey, K.G., *c-Irx2* expression reveals an early subdivision of the neural plate in the chick embryo, 203
 Hagan, D.M., see Hanley, N.A., 175
 Hamon, S., see Hardy, S., 199
 Hanley, N.A., Ball, S.G., Clement-Jones, M., Hagan, D.M., Strachan, T., Lindsay, S., Robson, S., Ostrer, H., Parker, K.L., Wilson, D.I., Expression of steroidogenic factor 1 and Wilms' tumour 1 during early human gonadal development and sex determination, 175
 Hardy, S., Hamon, S., Cooper, B., Mohun, T., Thiébaud, P., Two skeletal α -tropomyosin transcripts with distinct 3'UTR have different temporal and spatial patterns of expression in the striated muscle lineages of *Xenopus laevis*, 199
 Harpal, K., see Tanaka, M., 129
 Helms, J.A., see Ferguson, C., 57
 Hemphälä, J., see Steneberg, P., 153
 Hickel, P., see Colas, J.-F., 77
 Hirate, Y., see Mieda, M., 223
 Hirota, Y., Okabe, M., Imai, T., Kurusu, M., Yamamoto, A., Miyao, S., Nakamura, M., Sawamoto, K., Okano, H., Musashi and Seven in absentia downregulate Tramtrack through distinct mechanisms in *Drosophila* eye development, 93
 Imai, T., see Hirota, Y., 93
 Jäckle, H., see González-Gaitán, M., 143
 Jaenisch, R., see Tanaka, M., 129
 Kappel, A., see Elvert, G., 193
 Kikuchi, Y., see Mieda, M., 223
 Kioschis, P., see Monaghan, A.P., 45
 Klein, P.S., see Deardorff, M.A., 229
 Korzh, V., see Tan, J.T.T., 165
 Krauskopf, M., see Chavez, M., 207
 Kurusu, M., see Hirota, Y., 93
 Landry, C., see Chavez, M., 207
 Lanz, S., see Elvert, G., 193
 Launay, J.-M., see Colas, J.-F., 67
 Launay, J.-M., see Colas, J.-F., 77
 Li, H., Wu, D.K., Sullivan, S.L., Characterization and expression of *sema4g*, a novel member of the semaphorin gene family, 169
 Lindsay, S., see Hanley, N.A., 175
 Loret, S., see Chavez, M., 207
 Marom, K., Fainsod, A., Steinbeisser, H., Patterning of the mesoderm involves several threshold responses to *BMP-4* and *Xwnt-8*, 33

- Maroteaux, L., see Colas, J.-F., 67
 Maroteaux, L., see Colas, J.-F., 77
 Martial, J.A., see Chavez, M., 207
 McGrew, L.L., Takemaru, K.-I., Bates, R., Moon, R.T., Direct regulation of the *Xenopus engrailed-2* promoter by the Wnt signaling pathway, and a molecular screen for Wnt-responsive genes, confirm a role for Wnt signaling during neural patterning in *Xenopus*, 21
 Menzel, P., see Rogers, J.H., 119
 Miclau, T., see Ferguson, C., 57
 Mieda, M., Kikuchi, Y., Hirate, Y., Aoki, M., Okamoto, H., Compartmentalized expression of zebrafish *ten-m3* and *ten-m4*, homologues of the *Drosophila ten^m/odd* *Oz* gene, in the central nervous system, 223
 Miyao, S., see Hirota, Y., 93
 Mohun, T., see Hardy, S., 199
 Monaghan, A.P., Kioschis, P., Wu, W., Zuniga, A., Bock, D., Poustka, A., Delius, H., Niehrs, C., *Dickkopf* genes are co-ordinately expressed in mesodermal lineages, 45
 Moon, R.T., see McGrew, L.L., 21
 Muller, M., see Chavez, M., 207

 Nagy, A., see Tanaka, M., 129
 Nakamura, M., see Hirota, Y., 93
 Niehrs, C., see Monaghan, A.P., 45

 Okabe, M., see Hirota, Y., 93
 Okamoto, H., see Mieda, M., 223
 Okano, H., see Hirota, Y., 93
 Ostrer, H., see Hanley, N.A., 175

 Parker, K.L., see Hanley, N.A., 175
 Pasquale, E.B., see Rogers, J.H., 119
 Pearce, J.J.H., Evans, M.J., *Mml*, a mouse *Mix*-like gene expressed in the primitive streak, 189
 Peers, B., see Chavez, M., 207
 Poustka, A., see Monaghan, A.P., 45
 Puchyr, M., see Tanaka, M., 129

 Rentier-Delrue, F., see Chavez, M., 207
 Robson, S., see Hanley, N.A., 175
 Rogers, J.H., Ciossek, T., Menzel, P., Pasquale, E.B., Eph receptors and ephrins demarcate cerebellar lobules before and during their formation, 119
 Romancino, D.P., Di Carlo, M., Asymmetrical localization and segregation of *Paracentrotus lividus* Bep4 maternal protein, 3

 Roos, M., Schachner, M., Bernhardt, R.R., Zebrafish semaphorin Z1b inhibits growing motor axons in vivo, 103
 Rossant, J., see Tanaka, M., 129
 Rousseau, G.G., see Chavez, M., 207

 Samakovlis, C., see Steneberg, P., 153
 Sawamoto, K., see Hirota, Y., 93
 Schachner, M., see Roos, M., 103
 Scotting, P.J., see Duglison, G.F., 11
 Sheng, G., Stern, C.D., *Gata2* and *Gata3*: novel markers for early embryonic polarity and for non-neural ectoderm in the chick embryo, 213
 Steinbeisser, H., see Marom, K., 33
 Steneberg, P., Hemphälä, J., Samakovlis, C., Dpp and Notch specify the fusion cell fate in the dorsal branches of the *Drosophila* trachea, 153
 Stern, C.D., see Sheng, G., 213
 Storey, K.G., see Goriely, A., 203
 Strachan, T., see Hanley, N.A., 175
 Sullivan, S.L., see Li, H., 169

 Takemaru, K.-I., see McGrew, L.L., 21
 Tamura, K., Yonei-Tamura, S., Belmonte, J.C.I., Differential expression of *Tbx4* and *Tbx5* in zebrafish fin buds, 181
 Tan, J.T.T., Korzh, V., Gong, Z., Expression of a zebrafish *iroquois* homeobox gene, *Ziro3*, in the midline axial structures and central nervous system, 165
 Tanaka, M., Puchyr, M., Gertsenstein, M., Harpal, K., Jaenisch, R., Rossant, J., Nagy, A., Parental origin-specific expression of *Mash2* is established at the time of implantation with its imprinting mechanism highly resistant to genome-wide demethylation, 129
 Thiébaud, P., see Hardy, S., 199

 Vonesch, J.-L., see Colas, J.-F., 77

 Wigmore, P.M., see Duglison, G.F., 11
 Wilson, D.I., see Hanley, N.A., 175
 Wong, R.L.Y., Chan, K.K.L., Chow, K.L., Developmental expression of *Mab21l2* during mouse embryogenesis, 185
 Wu, D.K., see Li, H., 169
 Wu, W., see Monaghan, A.P., 45

 Yamamoto, A., see Hirota, Y., 93
 Yonei-Tamura, S., see Tamura, K., 181

 Zecchin, E., see Argenton, F., 217
 Zuniga, A., see Monaghan, A.P., 45

Subject index

Volume 87 (1999)

Adherens junction: Cell intercalation; Ectoderm extension; Gastrulation; G protein; Pair rule; Serotonin **87 77**

Angiogenesis: Hypoxia inducible factor; HIF-1 α ; HIF-2 α , HRF; EPAS-1; PAS domain protein; Basic helix-loop-helix transcription factor; Vasculogenesis; Quail embryo; Avian embryo **87 193**

Artemia: Crustacean; Osmoregulation; Homeodomain; POU protein; CFI-a; POU-M1 **87 207**

Asymmetrical localization: *Paracentrotus lividus*; Maternal protein **87 3**

Avian embryo: Hypoxia inducible factor; HIF-1 α ; HIF-2 α , HRF; EPAS-1; PAS domain protein; Basic helix-loop-helix transcription factor; Vasculogenesis; Angiogenesis; Quail embryo **87 193**

Axon guidance: Embryo; Somites; Rhombomeres; Recognition molecules; Collapsin; Semaphorin; Repulsion; Motor axon; Overexpression **87 103**

Axon guidance: Semaphorin; Collapsin; Mouse; Sensory ganglion; Retina; Inner ear; Olfactory system; Vomeronasal organ; Mouse chromosome 19 **87 169**

Basic helix-loop-helix transcription factor: Hypoxia inducible factor; HIF-1 α ; HIF-2 α , HRF; EPAS-1; PAS domain protein; Vasculogenesis; Angiogenesis; Quail embryo; Avian embryo **87 193**

Biopterin: Cuticle; Ectoderm extension; Gastrulation; G protein; Pair rule; Serotonin **87 67**

Bix: Mouse; *CMIX*; *Mix*; Homeobox; Endoderm; Extra-embryonic mesoderm; Primitive streak **87 189**

BMP-4: *Xenopus*; Mesoderm patterning; Gradient; *Xwnt-8*; *Sizzled*; *Myf-5*; *Xvent-1* **87 33**

Brain development: Eph receptors; Ephrins; Cerebellar lobules; Fusion proteins **87 119**

Branch fusion: Dpp; Notch; *Drosophila*; Tracheal development; Cell differentiation; Epithelial branching **87 153**

β -catenin: Wnt; *engrailed-2*; Promoter; LEF; TCF; *Xenopus* **87 21**

Cbfa1: Fracture repair; Skeletal development; Chondrocyte; Osteoblast; Perichondrium **87 57**

cDNA: Embryo; Dorsal endoderm; Insulin; Glucagon; Somatostatin; *Pdx1*; Zebrafish; Osteichthyes; *Danio rerio*; Development; Floor plate; Midline; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87 217**

Cell differentiation: Dpp; Notch; *Drosophila*; Tracheal development; Epithelial branching; Branch fusion **87 153**

Cell intercalation: Adherens junction; Ectoderm extension; Gastrulation; G protein; Pair rule; Serotonin **87 77**

Cell lineage: Mammalian; Skeletal muscle development **87 11**

Central nervous system: *Xenopus laevis*; Frizzled-2; *xfz2*; *rfz2*; Expression; Eye; Somite; Presomitic mesoderm; Otic vesicle **87 229**

Cerebellar lobules: Eph receptors; Ephrins; Brain development; Fusion proteins **87 119**

Cerebellum: Chick; Embryo; Homeodomain; Iroquois; Pre-pattern; Hindbrain; Midbrain; Isthmus; Rhombomere; Otic vesicle; Neural plate **87 203**

Cerebellum: Chordo-neural hinge; CNS, Interneurons; Motoneurons; Rhombomere 6 **87 165**

CFI-a: Crustacean; *Artemia*; Osmoregulation; Homeodomain; POU protein; POU-M1 **87 207**

Chick: Embryo; Homeodomain; Iroquois; Pre-pattern; Hindbrain; Midbrain; Isthmus; Rhombomere; Otic vesicle; Neural plate; Cerebellum **87 203**

Chondrocyte: Cbfa1; Fracture repair; Skeletal development; Osteoblast; Perichondrium **87 57**

Chordo-neural hinge: Cerebellum; CNS, Interneurons; Motoneurons; Rhombomere 6 **87 165**

Clathrin-mediated endocytosis: *Drosophila*; Dpp signalling; pattern formation; Wing imaginal disc **87 143**

CMIX: Mouse; *Mix*; *Bix*; Homeobox; Endoderm; Extra-embryonic mesoderm; Primitive streak **87 189**

CNS, Interneurons: Cerebellum; Chordo-neural hinge; Motoneurons; Rhombomere 6 **87 165**

CNS: Zebrafish; *ten-m*; *teneurin*; *ten¹lodd O2 (od2)*; DOC4; Rhombomere; Mesencephalon; Diencephalon; Midbrain/hindbrain boundary; EGF-repeat; Tenascin **87 223**

Collapsin: Embryo; Somites; Rhombomeres; Recognition molecules; Semaphorin; Axon guidance; Repulsion; Motor axon; Overexpression **87 103**

Collapsin: Semaphorin; Axon guidance; Mouse; Sensory ganglion; Retina;

Inner ear; Olfactory system; Vomeronasal organ; Mouse chromosome 19 **87** 169

Confocal microscopy: cDNA; Embryo; Dorsal endoderm; Insulin; Glucagon; Somatostatin; *Pdx1*; Zebrafish; Osteichthyes; *Danio rerio*; Development; Floor plate; Midline; Differentiation; Pancreas; Islet; In situ hybridization; Immunohistochemistry **87** 217

Crustacean: *Artemia*; Osmoregulation; Homeodomain; POU protein; Cfl-1; POU-M1 **87** 207

Cuticle: Bioperin; Ectoderm extension; Gastrulation; G protein; Pair rule; Serotonin **87** 67

Danio rerio: cDNA; Embryo; Dorsal endoderm; Insulin; Glucagon; Somatostatin; *Pdx1*; Zebrafish; Osteichthyes; Development; Floor plate; Midline; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87** 217

Development: cDNA; Embryo; Dorsal endoderm; Insulin; Glucagon; Somatostatin; *Pdx1*; Zebrafish; Osteichthyes; *Danio rerio*; Floor plate; Midline; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87** 217

Dickkopf genes: Mesodermal lineages; *Xenopus* **87** 45

Diencephalon: Zebrafish; *ten-m*; *teneurin*; *ten^mlodd Oz (odz)*; DOC4; CNS; Rhombomere; Mesencephalon; Midbrain/hindbrain boundary; EGF-repeat; Tenascin **87** 223

Differentiation: cDNA; Embryo; Dorsal endoderm; Insulin; Glucagon; Somatostatin; *Pdx1*; Zebrafish; Osteichthyes; *Danio rerio*; Floor plate; Midline; Development; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87** 217

Dnmt1; *Mash2*; Genomic imprinting; Methylation; Trophoblast; Placenta; Mouse **87** 129

DOC4; Zebrafish; *ten-m*; *teneurin*; *ten^mlodd Oz (odz)*; CNS; Rhombomere; Mesencephalon; Diencephalon; Midbrain/hindbrain boundary; EGF-repeat; Tenascin **87** 223

Dorsal endoderm: Embryo; Insulin; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Osteichthyes; Development; Floor plate; Midline; *Danio rerio*; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87** 217

Dpp signalling: Clathrin-mediated endocytosis; *Drosophila*; pattern formation; Wing imaginal disc **87** 143

Dpp; Notch; *Drosophila*; Tracheal development; Cell differentiation; Epithelial branching; Branch fusion **87** 153

Drosophila: Clathrin-mediated endocytosis; Dpp signalling; pattern formation; Wing imaginal disc **87** 143

Drosophila: Dpp; Notch; Tracheal development; Cell differentiation; Epithelial branching; Branch fusion **87** 153

Drosophila: RNA-binding protein; Musashi; Tramtrack; Seven in absentia; Photoreceptor cell; Eye development **87** 93

Ectoderm extension: Adherens junction; Cell intercalation; Gastrulation; G protein; Pair rule; Serotonin **87** 77

Ectoderm extension: Bioperin; Cuticle; Gastrulation; G protein; Pair rule; Serotonin **87** 67

EGF-repeat: Zebrafish; *ten-m*; *teneurin*; *ten^mlodd Oz (odz)*; DOC4; CNS; Rhombomere; Mesencephalon; Diencephalon; Midbrain/hindbrain boundary; Tenascin **87** 223

Embryo: Chick; Homeodomain; Iroquois; Pre-pattern; Hindbrain; Midbrain; Isthmus; Rhombomere; Otic vesicle; Neural plate; Cerebellum **87** 203

Embryo: Dorsal endoderm; Insulin; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Osteichthyes; *Danio rerio*; Development; Floor plate; Midline; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87** 217

Embryo: Somites; Rhombomeres; Recognition molecules; Collapsin; Semaphorin; Axon guidance; Repulsion; Motor axon; Overexpression **87** 103

Embryogenesis: *T-box*; *Tbx4*; *Tbx5*; Zebrafish; Gene expression; Fin bud **87** 181

Embryogenesis: Steroidogenic factor 1 (SF-1); Wilms' tumour 1 (WT1); Sex determination, Human; Testis; Ovary **87** 175

Embryonic polarity: Gata2; Gata3; Epidermis Non-neural ectoderm; Intermediate mesoderm **87** 213

Endoderm: Mouse; *CMIX*; *Mix*; *Bix*; Homeobox; Extra-embryonic mesoderm; Primitive streak **87** 189

engrailed-2; Wnt; β -catenin; Promoter; LEF; TCF; *Xenopus* **87** 21

EPAS-1: Hypoxia inducible factor; HIF-1 α ; HIF-2 α , HRF; PAS domain protein; Basic helix-loop-helix transcription factor; Vasculogenesis; Angiogenesis; Quail embryo; Avian embryo **87** 193

Eph receptors; Ephrins; Cerebellar lobules; Brain development; Fusion proteins **87** 119

Ephrins; Eph receptors; Cerebellar lobules; Brain development; Fusion proteins **87** 119

Epidermis: Non-neural ectoderm; Gata2; Gata3; Intermediate mesoderm; Embryonic polarity **87** 213

Epithelial branching: Dpp; Notch; *Drosophila*; Tracheal development; Cell differentiation; Branch fusion **87** 153

Expression pattern: *Mab21l2*; Mouse embryogenesis **87** 185

Expression; *Xenopus laevis*; Frizzled-2; *xfz2*; *rfz2*; Eye; Somite; Presomitic mesoderm; Otic vesicle; Central nervous system **87** 229

Extra-embryonic mesoderm: Mouse; *CMIX*; *Mix*; *Bix*; Homeobox; Endoderm; Primitive streak **87** 189

Eye development: RNA-binding protein; Musashi; Tramtrack; Seven in absentia; Photoreceptor cell; *Drosophila* **87** 93

Eye; *Xenopus laevis*; Frizzled-2; *xfz2*; *rfz2*; Expression; Somite; Presomitic mesoderm; Otic vesicle; Central nervous system **87** 229

Fin bud; *T-box*; *Tbx4*; *Tbx5*; Zebrafish; Gene expression; Embryogenesis **87** 181

Floor plate: Dorsal endoderm; Insulin; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Osteichthyes; *Danio rerio*; Development; Embryo;

Midline; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87 217**

Fracture repair; Cbfa1; Skeletal development; Chondrocyte; Osteoblast; Perichondrium **87 57**

Frizzled-2; *Xenopus laevis*; *xfz2*; *rfz2*; Expression; Eye; Somite; Presomitic mesoderm; Otic vesicle; Central nervous system **87 229**

Fusion proteins; Eph receptors; Ephrins; Cerebeller lobules; Brain development **87 119**

G protein; Adherens junction; Cell intercalation; Ectoderm extension; Gastrulation; Pair rule; Serotonin **87 77**

G protein; Bioprotein; Cuticle; Ectoderm extension; Gastrulation; Pair rule; Serotonin **87 67**

Gastrulation; Adherens junction; Cell intercalation; Ectoderm extension; G protein; Pair rule; Serotonin **87 77**

Gastrulation; Bioprotein; Cuticle; Ectoderm extension; G protein; Pair rule; Serotonin **87 67**

Gata2; Gata3; Epidermis Non-neural ectoderm; Intermediate mesoderm; Embryonic polarity **87 213**

Gata3; Gata2; Epidermis Non-neural ectoderm; Intermediate mesoderm; Embryonic polarity **87 213**

Gene expression; *T-box*; *Tbx4*; *Tbx5*; Zebrafish; Embryogenesis; Fin bud **87 181**

Genomic imprinting; *Mash2*; Methylation; *Dnmt1*; Trophoblast; Placenta; Mouse **87 129**

Glucagon; Embryo; Dorsal endoderm; Insulin; Somatostatin; *Pdx1*; Zebrafish; cDNA; Osteichthyes; *Danio rerio*; Development; Floor plate; Midline; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87 217**

Gradient; *Xenopus*; Mesoderm patterning; *Xwnt-8*; *BMP-4*; *Sizzled*; *Myf-5*; *Xvent-1* **87 33**

HIF-1 α ; Hypoxia inducible factor; HIF-2 α , HRF; EPAS-1; PAS domain protein; Basic helix-loop-helix transcription factor; Vasculogenesis; Angiogenesis; Quail embryo; Avian embryo **87 193**

HIF-2 α , HRF; Hypoxia inducible factor; HIF-1 α ; EPAS-1; PAS domain protein; Basic helix-loop-helix transcription factor; Vasculogenesis; Angiogenesis; Quail embryo; Avian embryo **87 193**

Hindbrain; Chick; Embryo; Homeodomain; Iroquois; Pre-pattern; Midbrain; Isthmus; Rhombomere; Otic vesicle; Neural plate; Cerebellum **87 203**

Homeobox; Mouse; *CMIX*; *Mix*; *Bix*; Endoderm; Extra-embryonic mesoderm; Primitive streak **87 189**

Homeodomain; Chick; Embryo; Iroquois; Pre-pattern; Hindbrain; Midbrain; Isthmus; Rhombomere; Otic vesicle; Neural plate; Cerebellum **87 203**

Homeodomain; Crustacean; *Artemia*; Osmoregulation; POU protein; Cf1-a; POU-M1 **87 207**

Hypoxia inducible factor; HIF-1 α ; HIF-2 α , HRF; EPAS-1; PAS domain

protein; Basic helix-loop-helix transcription factor; Vasculogenesis; Angiogenesis; Quail embryo; Avian embryo **87 193**

Immunohistochemistry; Embryo; Dorsal endoderm; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Osteichthyes; Development; Floor plate; Midline; *Danio rerio*; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Insulin **87 217**

Inner ear; Semaphorin; Collapsin; Axon guidance; Mouse; Sensory ganglion; Retina; Olfactory system; Vomeronasal organ; Mouse chromosome **19 87 169**

In situ hybridization; Embryo; Dorsal endoderm; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Osteichthyes; Development; Floor plate; Midline; *Danio rerio*; Differentiation; Pancreas; Islet; Confocal microscopy; Insulin; Immunohistochemistry **87 217**

Insulin; Embryo; Dorsal endoderm; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Osteichthyes; Development; Floor plate; Midline; *Danio rerio*; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87 217**

Intermediate mesoderm; Gata2; Gata3; Epidermis Non-neural ectoderm; Embryonic polarity **87 213**

Iroquois; Chick; Embryo; Homeodomain; Pre-pattern; Hindbrain; Midbrain; Isthmus; Rhombomere; Otic vesicle; Neural plate; Cerebellum **87 203**

Islet; Embryo; Dorsal endoderm; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Osteichthyes; Development; Floor plate; Midline; *Danio rerio*; Differentiation; Pancreas; In situ hybridization; Confocal microscopy; Insulin; Immunohistochemistry **87 217**

Isthmus; Chick; Embryo; Homeodomain; Iroquois; Pre-pattern; Hindbrain; Midbrain; Rhombomere; Otic vesicle; Neural plate; Cerebellum **87 203**

LEF; Wnt; *engrailed-2*; β -catenin; Promoter; TCF; *Xenopus* **87 21**

Mab2112; Expression pattern; Mouse embryogenesis **87 185**

Mammalian; Cell lineage; Skeletal muscle development **87 11**

Mash2; Genomic imprinting; Methylation; *Dnmt1*; Trophoblast; Placenta; Mouse **87 129**

Maternal protein; Asymmetrical localization; Paracentrotus lividus **87 3**

Mesencephalon; Zebrafish; *ten-m*; *teneurin*; *ten^mlodd Oz (odz)*; DOC4; CNS; Rhombomere; Diencephalon; Midbrain/hindbrain boundary; EGF-repeat; Tenascin **87 223**

Mesoderm patterning; *Xenopus*; Gradient; *Xwnt-8*; *BMP-4*; *Sizzled*; *Myf-5*; *Xvent-1* **87 33**

Mesodermal lineages; *Dickkopf* genes; *Xenopus* **87 45**

Methylation; *Mash2*; Genomic imprinting; *Dnmt1*; Trophoblast; Placenta; Mouse **87 129**

Midbrain/hindbrain boundary; Zebrafish; *ten-m*; *teneurin*; *ten^mlodd Oz (odz)*; DOC4; CNS; Rhombomere; Mesencephalon; Diencephalon; EGF-repeat; Tenascin **87 223**

Midbrain; Chick; Embryo; Homeodomain; Iroquois; Pre-pattern; Hindbrain; Isthmus; Rhombomere; Otic vesicle; Neural plate; Cerebellum **87 203**

Midline: Embryo; Dorsal endoderm; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Osteichthyes; Development; Floor plate; Islet; *Danio rerio*; Differentiation; Pancreas; In situ hybridization; Confocal microscopy; Insulin; Immunohistochemistry **87 217**

Mix: Mouse; *CMIX*; *Bix*; Homeobox; Endoderm; Extra-embryonic mesoderm; Primitive streak **87 189**

Motoneurons: Cerebellum; Chord-neural hinge; CNS; Interneurons; Rhombomere **6 87 165**

Motor axon: Embryo; Somites; Rhombomeres; Recognition molecules; Collapsin; Semaphorin; Axon guidance; Repulsion; Overexpression **87 103**

Mouse chromosome: Semaphorin; Collapsin; Axon guidance; Mouse; Sensory ganglion; Retina; Inner ear; Olfactory system; Vomeronasal organ **19 87 169**

Mouse embryogenesis: *Mab2112*; Expression pattern **87 185**

Mouse: *CMIX*; *Mix*; *Bix*; Homeobox; Endoderm; Extra-embryonic mesoderm; Primitive streak **87 189**

Mouse: *Mash2*; Genomic imprinting; Methylation; *Dnmt1*; Trophoblast; Placenta **87 129**

Mouse: Semaphorin; Collapsin; Axon guidance; Sensory ganglion; Retina; Inner ear; Olfactory system; Vomeronasal organ; Mouse chromosome **19 87 169**

Musashi: RNA-binding protein; Tramtrack; Seven in absentia; Photoreceptor cell; Eye development; *Drosophila* **87 93**

Myf-5: *Xenopus*; Mesoderm patterning; Gradient; *Xwnt-8*; *BMP-4*; *Sizzled*; *Xvent-1* **87 33**

Neural plate: Chick; Embryo; Homeodomain; Iroquois; Pre-pattern; Hindbrain; Midbrain; Isthmus; Rhombomere; Otic vesicle; Cerebellum **87 203**

Notch: Dpp; *Drosophila*; Tracheal development; Cell differentiation; Epithelial branching; Branch fusion **87 153**

Olfactory system: Semaphorin; Collapsin; Axon guidance; Mouse; Sensory ganglion; Retina; Inner ear; Vomeronasal organ; Mouse chromosome **19 87 169**

Osmoregulation: Crustacean; *Artemia*; Homeodomain; POU protein; Cfl-a; POU-M1 **87 207**

Osteichthyes: Embryo; Dorsal endoderm; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Midline; Development; Floor plate; Islet; *Danio rerio*; Differentiation; Pancreas; In situ hybridization; Confocal microscopy; Insulin; Immunohistochemistry **87 217**

Osteoblast: Cbfa1; Fracture repair; Skeletal development; Chondrocyte; Perichondrium **87 57**

Otic vesicle: *Xenopus laevis*; Frizzled-2; xzf2; rfz2; Expression; Eye; Somite; Presomitic mesoderm; Central nervous system **87 229**

Otic vesicle: Chick; Embryo; Homeodomain; Iroquois; Pre-pattern; Hindbrain; Midbrain; Isthmus; Rhombomere; Neural plate; Cerebellum **87 203**

Ovary: Steroidogenic factor 1 (SF-1); Wilms' tumour 1 (WT1); Sex determination, Human; Embryogenesis; Testis **87 175**

Overexpression: Embryo; Somites; Rhombomeres; Recognition mole-

cules; Collapsin; Semaphorin; Axon guidance; Repulsion; Motor axon **87 103**

Pair rule: Adherens junction; Cell intercalation; Ectoderm extension; Gastrulation; G protein; Serotonin **87 77**

Pair rule: Bioprotein; Cuticle; Ectoderm extension; Gastrulation; G protein; Serotonin **87 67**

Pancreas: Embryo; Dorsal endoderm; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Midline; Development; Floor plate; Islet; *Danio rerio*; Differentiation; Osteichthyes; In situ hybridization; Confocal microscopy; Insulin; Immunohistochemistry **87 217**

Paracentrotus lividus: Asymmetrical localization; Maternal protein **87 3**

PAS domain protein: Hypoxia inducible factor; HIF-1 α ; HIF-2 α , HRF; EPAS-1; Basic helix-loop-helix transcription factor; Vasculogenesis; Angiogenesis; Quail embryo; Avian embryo **87 193**

pattern formation: Clathrin-mediated endocytosis; *Drosophila*; Dpp signalling; Wing imaginal disc **87 143**

Pdx1: Zebrafish; Embryo; Dorsal endoderm; Insulin; Glucagon; Somatostatin; cDNA; Midline; Development; Floor plate; Islet; *Danio rerio*; Differentiation; Osteichthyes; In situ hybridization; Confocal microscopy; Insulin; Immunohistochemistry **87 217**

Perichondrium: Cbfa1; Fracture repair; Skeletal development; Chondrocyte; Osteoblast **87 57**

Photoreceptor cell: RNA-binding protein; Musashi; Tramtrack; Seven in absentia; Eye development; *Drosophila* **87 93**

Placenta: *Mash2*; Genomic imprinting; Methylation; *Dnmt1*; Trophoblast; Mouse **87 129**

POU protein: Crustacean; *Artemia*; Osmoregulation; Homeodomain; Cfl-a; POU-M1 **87 207**

POU-M1: Crustacean; *Artemia*; Osmoregulation; Homeodomain; POU protein; Cfl-a **87 207**

Pre-pattern: Chick; Embryo; Homeodomain; Iroquois; Hindbrain; Midbrain; Isthmus; Rhombomere; Otic vesicle; Neural plate; Cerebellum **87 203**

Presomitic mesoderm: *Xenopus laevis*; Frizzled-2; xzf2; rfz2; Expression; Eye; Somite; Otic vesicle; Central nervous system **87 229**

Primitive streak: Mouse; *CMIX*; *Mix*; *Bix*; Homeobox; Endoderm; Extra-embryonic mesoderm **87 189**

Promoter: Wnt; *engrailed-2*; β -catenin; LEF; TCF; *Xenopus* **87 21**

Quail embryo: Hypoxia inducible factor; HIF-1 α ; HIF-2 α , HRF; EPAS-1; PAS domain protein; Basic helix-loop-helix transcription factor; Vasculogenesis; Angiogenesis; Avian embryo **87 193**

Recognition molecules: Embryo; Somites; Rhombomeres; Collapsin; Semaphorin; Axon guidance; Repulsion; Motor axon; Overexpression **87 103**

Repulsion: Embryo; Somites; Rhombomeres; Recognition molecules; Collapsin; Semaphorin; Axon guidance; Motor axon; Overexpression **87 103**

Retina: Semaphorin; Collapsin; Axon guidance; Mouse; Sensory ganglion; Inner ear; Olfactory system; Vomeronasal organ; Mouse chromosome 19 **87 169**

rfz2; *Xenopus laevis*; Frizzled-2; xzf2; Expression; Eye; Somite; Presomitic mesoderm; Otic vesicle; Central nervous system **87 229**

Rhombomere 6: Cerebellum; Chord-neural hinge; CNS; Interneurons; Motoneurons **87 165**

Rhombomere: Chick; Embryo; Homeodomain; Iroquois; Pre-pattern; Hindbrain; Midbrain; Isthmus; Otic vesicle; Neural plate; Cerebellum **87 203**

Rhombomere: Zebrafish; *ten-m*; *teneurin*; *ten^m/lodd Oz (odz)*; DOC4; CNS; Mesencephalon; Diencephalon; Midbrain/hindbrain boundary; EGF-repeat; Tenascin **87 223**

Rhombomeres: Embryo; Somites; Recognition molecules; Collapsin; Semaphorin; Axon guidance; Repulsion; Motor axon; Overexpression **87 103**

RNA-binding protein: Musashi; Tramtrack; Seven in absentia; Photoreceptor cell; Eye development; *Drosophila* **87 93**

Semaphorin: Collapsin; Axon guidance; Mouse; Sensory ganglion; Retina; Inner ear; Olfactory system; Vomeronasal organ; Mouse chromosome 19 **87 169**

Semaphorin: Embryo; Somites; Rhombomeres; Recognition molecules; Collapsin; Axon guidance; Repulsion; Motor axon; Overexpression **87 103**

Sensory ganglion: Semaphorin; Collapsin; Axon guidance; Mouse; Retina; Inner ear; Olfactory system; Vomeronasal organ; Mouse chromosome 19 **87 169**

Serotonin: Adherens junction; Cell intercalation; Ectoderm extension; Gastrulation; G protein; Pair rule **87 77**

Serotonin: Bioperin; Cuticle; Ectoderm extension; Gastrulation; G protein; Pair rule **87 67**

Seven in absentia: RNA-binding protein; Musashi; Tramtrack; Photoreceptor cell; Eye development; *Drosophila* **87 93**

Sex determination: Human; Steroidogenic factor 1 (SF-1); Wilms' tumour 1 (WT1); Embryogenesis; Testis; Ovary **87 175**

Sizzled; *Xenopus*; Mesoderm patterning; Gradient; *Xwnt-8*; *BMP-4*; *Myf-5*; *Xvent-1* **87 33**

Skeletal development: Cbfa1; Fracture repair; Chondrocyte; Osteoblast; Perichondrium **87 57**

Skeletal muscle development: Cell lineage; Mammalian **87 11**

Skeletal muscle isoform: α -Tropomyosin gene; XTMA2; XTMA7 **87 199**

Somatostatin: Embryo; Dorsal endoderm; Insulin; Glucagon; *Pdx1*; Zebrafish; cDNA; Midline; Development; Floor plate; Islet; *Danio rerio*; Differentiation; Osteichthyes; In situ hybridization; Confocal microscopy; Insulin; Immunohistochemistry **87 217**

Somite: *Xenopus laevis*; Frizzled-2; xzf2; rfz2; Expression; Eye; Presomitic mesoderm; Otic vesicle; Central nervous system **87 229**

Somites: Embryo; Rhombomeres; Recognition molecules; Collapsin;

Semaphorin; Axon guidance; Repulsion; Motor axon; Overexpression **87 103**

Steroidogenic factor 1 (SF-1); Wilms' tumour 1 (WT1); Sex determination, Human; Embryogenesis; Testis; Ovary **87 175**

T-box; *Tbx4*; *Tbx5*; Zebrafish; Gene expression; Embryogenesis; Fin bud **87 181**

Tbx4; *T-box*; *Tbx5*; Zebrafish; Gene expression; Embryogenesis; Fin bud **87 181**

Tbx5; *T-box*; *Tbx4*; Zebrafish; Gene expression; Embryogenesis; Fin bud **87 181**

TCF; Wnt; *engrailed-2*; β -catenin; ; Promoter; LEF; *Xenopus* **87 21**

Tenascin; Zebrafish; *ten-m*; *teneurin*; *ten^m/lodd Oz (odz)*; DOC4; CNS; Rhombomere; Mesencephalon; Diencephalon; Midbrain/hindbrain boundary; EGF-repeat **87 223**

***ten^m/lodd Oz (odz)*;** Zebrafish; *ten-m*; *teneurin*; DOC4; CNS; Rhombomere; Mesencephalon; Diencephalon; Midbrain/hindbrain boundary; EGF-repeat; Tenascin **87 223**

***teneurin*;** Zebrafish; *ten-m*; *ten^m/lodd Oz (odz)*; DOC4; CNS; Rhombomere; Mesencephalon; Diencephalon; Midbrain/hindbrain boundary; EGF-repeat; Tenascin **87 223**

***ten-m*;** Zebrafish; *teneurin*; *ten^m/lodd Oz (odz)*; DOC4; CNS; Rhombomere; Mesencephalon; Diencephalon; Midbrain/hindbrain boundary; EGF-repeat; Tenascin **87 223**

Testis: Steroidogenic factor 1 (SF-1); Wilms' tumour 1 (WT1); Sex determination, Human; Embryogenesis; Ovary **87 175**

Tracheal development: Dpp; Notch; *Drosophila*; Cell differentiation; Epithelial branching; Branch fusion **87 153**

Tramtrack; RNA-binding protein; Musashi; Seven in absentia; Photoreceptor cell; Eye development; *Drosophila* **87 93**

α -Tropomyosin gene; Skeletal muscle isoform; XTMA2; XTMA7 **87 199**

Trophoblast; *Mash2*; Genomic imprinting; Methylation; *Dnmt1*; Placenta; Mouse **87 129**

tumour 1 (WT1); Steroidogenic factor 1 (SF-1); Wilms' Sex determination, Human; Embryogenesis; Testis; Ovary **87 175**

Vasculogenesis; Hypoxia inducible factor; HIF-1 α ; HIF-2 α , HRF; EPAS-1; PAS domain protein; Basic helix-loop-helix transcription factor; Angiogenesis; Quail embryo; Avian embryo **87 193**

Vomeronasal organ; Semaphorin; Collapsin; Axon guidance; Mouse; Sensory ganglion; Retina; Inner ear; Olfactory system; Mouse chromosome 19 **87 169**

Wilms'; Steroidogenic factor 1 (SF-1); tumour 1 (WT1); Sex determination, Human; Embryogenesis; Testis; Ovary **87 175**

Wing imaginal disc; Clathrin-mediated endocytosis; *Drosophila*; Dpp signalling; pattern formation **87 143**

Wnt; *engrailed-2*; β -catenin; Promoter; LEF; TCF; *Xenopus* **87 21**

Xenopus laevis; Frizzled-2; *xfz2*; *rfz2*; Expression; Eye; Somite; Presomitic mesoderm; Otic vesicle; Central nervous system **87** 229

Xenopus; *Dickkopf* genes; Mesodermal lineages **87** 45

Xenopus; Mesoderm patterning; Gradient; *Xwnt-8*; *BMP-4*; *Sizzled*; *Myf-5*; *Xvent-1* **87** 33

Xenopus; Wnt; *engrailed-2*; β -catenin; Promoter; LEF; TCF **87** 21

xfz2; *Xenopus laevis*; Frizzled-2; *rfz2*; Expression; Eye; Somite; Presomitic mesoderm; Otic vesicle; Central nervous system **87** 229

XTM α 2; α -Tropomyosin gene; Skeletal muscle isoform; *XTM α 7* **87** 199

XTM α 7; α -Tropomyosin gene; Skeletal muscle isoform; *XTM α 2* **87** 199

Xvent-1; *Xenopus*; Mesoderm patterning; Gradient; *Xwnt-8*; *BMP-4*; *Sizzled*; *Myf-5* **87** 33

Xwnt-8; *Xenopus*; Mesoderm patterning; Gradient; *BMP-4*; *Sizzled*; *Myf-5*; *Xvent-1* **87** 33

Zebrafish; *T-box*; *Tbx4*; *Tbx5*; Gene expression; Embryogenesis; Fin bud **87** 181

Zebrafish; *ten-m*; *teneurin*; *ten^mlodd Oz (odz)*; *DOC4*; CNS; Rhombomere; Mesencephalon; Diencephalon; Midbrain/hindbrain boundary; EGF-repeat; Tenascin **87** 223

Zebrafish; Embryo; Dorsal endoderm; Insulin; Somatostatin; *Pdx1*; Glucagon; cDNA; Osteichthyes; *Danio rerio*; Development; Floor plate; Midline; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87** 217

